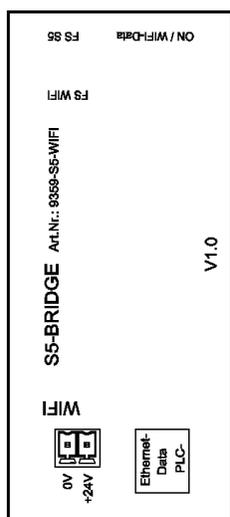# Handling-Shortinstruction for
# S5-BRIDGE

**connects all your controllers to TTY over LAN and WIFI**

## 1.) Connection/Labeling

The S5-BRIDGE has the following inscription printed on the top (15-pin D-Sub facing).

FS Wifi:  Factory setting of the WIFI router
(3s hold down with a paper clip, then theFactory setting triggered, the device makes a reboot )

FS S5:    Factory setting of the S5-part
(3s hold down with a paper clip, then theFactory setting triggered, the S5-part makes a reboot)

ON/WIFI: ON-LED, with WIFI-communication this LED flashes additionally

Assignment of voltage connection (top view):
Upper pin :                                    0V
Lower pin (towards the RJ45 socket) :          +24V DC

RJ45-socket with LEDs:
Upper LED:            Link and ethernet-communication to the router
Lower LED:            Link and communication to the S5-PLC

## 2.) Voltage connection

The module is plugged into the PG interface of the S5 PLC. If this PLC controller does not output 24V DC at this interface, the module can be powered externally. The assignment of the small connector is shown in the chapter above.

**Check the assignment of the Phoenix-plug before using the external power-supply! The module itself is protected against reverse polarity, but it can not be guaranteed if it is plugged onto another module .**

## 3. WebServer of WIFI-router

To access the device's website, all you need is a web browser (for example, Microsoft Internet Explorer, Mozilla Firefox, or Google Chrome). The website access is independent of the operating system or web browser of the computer used .

The web server of the device can be reached via WIFI or Ethernet. The factory IP-address is 192.168.1.56 with the subnet mask 255.255.255.0.

On delivery, the device is a WIFI access point and there is nothing in the way of connecting to the laptop with the SSID "S5-Bridge WiFi". There is no encryption required. The access is free .

Of course, the device can also be addressed via the integrated Ethernet interface with the known IP-address.

Communication with the S5-PLC via the integrated S5-LAN++-module is possible with the same IP-address 192.168.1.56 and subnet mask 255.255.255.0. Both „devices" use the identical IP-address!

In order to communicate with Step5 from Siemens, you need the virtual COM port "PLCVCom" in addition to the module and the S5-Patch once. To do this, install "PLCVCom" on the PC, search for possible participants and connect to them. Do not close the virtual COM-port, only minimize it! Then install the S5-Patch once, without this tool the Step5 software from Siemens cannot communicate with the virtual COM-port.

No additional software needs to be installed for PG-2000-software, the tool accesses the controller directly via the IP address of the module set in the interface-dialog.

### Attention:

To ensure communication via the S5-BRIDGE and the integrated S5-LAN++-module, the PC and the S5-BRIDGE must be in the same subnet !

More about the S5-BRIDGE and the current device manuals for S5-BRIDGE and S5-LAN++ can be found on the product page.

**Alternative S5-interface-produkt (only LAN)**

**S5-LAN++-module (art.nr: 9359-LAN)**
**Industrial Ethernet**
**TCP/IP for each SIMATIC S5 over the PG-interface**
**Easy remote-maintenance over internet**

Your advantage
- Fastest installation to the network of every SIMATIC - S5
- No complicated installation, simply plug on PD-interface and communicate
- S7 compatible
- Communication with Fetch/Write
- PUT/GET with S7-TCP/IP
- Reading and writing of S5-data (E,A,M,DB,Z,T) via TCP/IP
- Ideal for process-visualisation
- Programming with STEP 5 via Ethernet
- Simultaneous programming (multiple PD-channels) and visualisation possible (integrated multiplexer function)
- Power supply from the S5-PLC or external
- Disclosed TCP/IP-protocol
- DHCP / Auto-IP supported
- Timing-equitable communication with the S5-PLC via integrated firmware
- Driver-DLL for Windows available, EXCEL and WORD can read/write S5-data
- Compatible with VIPA-S5-TCP/IP driver
- Direct operation with WinCC via TCP/IP driver S5 Layer4 possible
- With WinCC Flexible/TIA (e.g. MP377, TP177B) via S7-TCP/IP to the Simatic S5 (CP-343-1 compatible)
- Data exchange between S5 – S5 and S5 - S7 via TCP/IP
- RK 512 and TCP/IP H1-ISO-On-TCP RFC1006 (CP1430 TCP) supported
- Versions: 3964R-LAN, ASCII-LAN, PG-LAN, as RS232-version and for the MUX757
- Including a free OPC-server license "OPC-Manager lite" [limited to 100 items]
- Examples and demo-version of communication driver as download available

# Further interface-cable for S5

**PG-UNI-Kabel**

- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of the plc
- Galvanically separably to 1kV with PG ISO adapter
- Prolongable up to 300 meters
- Complete electronics in the plug housing
- Supply from the PLC over the current sources of the PG-port
- Functioned also at some CP's, IP's and Sinumerik controls

**PG-UNI-II Kabel**

- ESD firm transducer component up to 15kV
- 9pin and 15pin plug housings are made of solid metal
- For controll of data transmission, there are two LED's integrated (RxD and TxD).
- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of the plc
- Galvanically separably to 1kV with PG ISO adapter
- Prolongable up to 300 meters
- Complete electronics in the plug housing
- Supply from the PLC over the current sources
- Functioned also at some CP's, IP's and Sinumerik controls

**PG-USB-Kabel**

- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of the plc
- 15pin plug housings are made of solid metal
- Complete electronics in the plug housing
- Supply of the cable complete from the PC
- Prolongable up to 100 meters
- Is „active" in relation of the plc
- Is working with standard S5-Software (Drivers for Win2000 and XP will be delivered with this cable)

> *Attention: The delivered driver for Windows 2000 and XP installs the PG-USB-Kabel as a virtual COM-Port. For use with the original Siemens Step5 software you have to install the also delivered driver "PG-USB-Kabel an S5" and then you can use it.*

**PG-COM-Kabel**

- Couples the PC (9pol. COM-interface) with the 15 pole X4/X5 interface port of the plc
- Complete electronics in the plug housing
- Supply from the PLC over the 5V of the PG-port

**PG-ISO-SET**

- Galvanically separable from pc to the plc up to 1kV
- contact-protected housing, it is plastic housing
- The set contains PG-UNI-Kabel (3m) Art.Nr.9359-3 and the PG-ISO-Adapter Art.Nr.9359-8
- Supply of the module from the plc Voltage 5V and/or 24V

**SC-09-Kabel**

- Couples the PC (9pol. COM-interface) with the RS485 interface port of the plc
- PLC coupling with 25pin D-Sub or with Mini-Din-plug (special adapter)
- Supply from the PLC over the 5V of the PG-port
- Complete electronics in the plug housing

**PG-ISO-Adapter for PG-UNI/PG-UNI-II**

- Galvanically separable from pc above the PG-UNI-Kabel to the plc up to 1kV
- contact-protected housing, it is plastic housing
- Generates a new Ground and new Current Sources for the communication
- Supply of the module from the plc Voltage 5V and/or 24V

**Netz-Adapter for PG-UNI/PG-UNI-II**

- Generates new Current Sources for the communication
- Operation area: damaged Current Sources, not existing Current Sources, sanded Current Sources, passive Current Sources
- Supply of the module with 24V external

**Additional adapters for PG-UNI/PG-UNI-II**
general :                  Small Adapter, only 10cm long
                           Plug mechanics fitting to the plc

**CP525-Adapter**
- Connection to the **programming port** of the CP525

**CP525-K-Adapter**
- Connection to the **communication port** of the CP525
- This adapter can be used for following devices, too: CP524 and SAS523/525

**AG150-Adapter**
- **Only** use with the Netzadapter, because plc AG150 has an passive interface port!

**WF470-Adapter**
- **Only** used with the Netzadapter, because WF470 has an passive interface port!

SINUM-Adapter
- This adapter can be used for following plc-type: 805, 810, 820, 840, 850, 880

**Additional adapters for PG-USB**

general :                  Small Adapter, only 10cm long
                           Plug mechanics fitting to the plc

**CP525-Adapter**
- Connection to the **programming port** of the CP525

**CP525-K-Adapter**
- Connection to the **communication port** of the CP525
- This adapter can be used for following devices, too: CP524 and SAS523/525

**AG150-Adapter**
**WF470-Adapter**
**SINUM-Adapter**
- This adapter can be used for following plc-type: 805, 810, 820, 840, 850, 880

Under the web-address https://www.process-informatik.de are product specific
documentations or software-driver/-tools available to download.
If you have questions or suggestions about the product, please don't hesitate to contact us.

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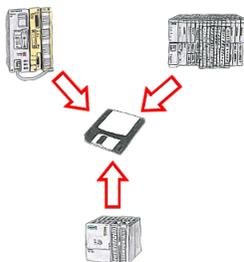**Menutree Website:**                          **QR-Code Website:**

+ Products / docu / downloads
　+ Hardware
　　+ Programming devices
　　　+ Programming adapter S5
　　　　+ S5 over LAN
　　　　　+ S5-BRIDGE









Please make sure to update your drivers before using our products.

You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

Active on every S5-PLC
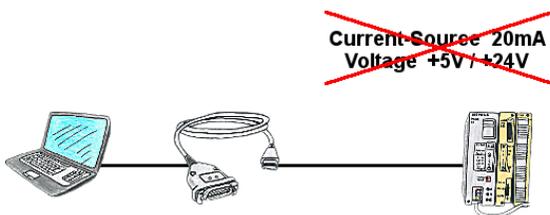


PLC's without current-sources (+20mA) and voltages (5V/24V) at the PG-interface such as the AS511-plug-in card?
The PG-USB-cable does not need anything, it is supplied directly from the USB-socket to which it was plugged. It is active towards its communication-partners, contains its own current-sources.
Universally connected to the S5-PLC without worrying about the supply. Function also given on controls with current-sources/voltages.

| Data backup S5-PLC on SD-card |
|---|



S5-PLC triggered DB-backup/-restore without additional PC via PG-socket and Ethernet on SD-card

| Data backup S7-PLC PN-port on USB-stick |
|---|



S7-PLC triggered DB-backup/-restore without additional PC via PN-port to USB-stick